

ABSTRACT OF THE DISCLOSURE

DATA PROCESSING SYSTEM AND METHOD FOR MAINTAINING SECURE
USER PRIVATE KEYS IN NON-SECURE STORAGE

1 A data processing system and method are disclosed for
2 maintaining secure user private keys in a non-secure storage
3 device. A master key pair is established for the system. The
4 master key pair includes a master private key and a master
5 public key. The master key pair is stored in a protected
6 storage device. A unique user key pair is established for
7 each user. The user key pair includes a user private key and
8 a user public key. The user private key is encrypted
9 utilizing the master public key. The encrypted user private
10 key is stored in the non-secure storage device, wherein the
11 encrypted user private key is secure while stored in the non-
12 secure storage device.